

A CHECKLIST OF THE VASCULAR FLORA OF CONECUH COUNTY, ALABAMA

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ABSTRACT

Based upon recent field studies, 908 species and varieties of vascular plants, representing 502 genera and 148 families, are listed for Conecuh County, Alabama. The county is centrally located in the Coastal Plain Province and contains portions of the Red Hills, Lime Hills, and Pine Flatwoods subdivisions. At least 89 of the species listed (9.8%) are considered to be new county or state records, and several of these significantly extend previously reported geographic ranges. With very few exceptions, these records represent native, non-weedy taxa.

RESUMEN

En base a estudios de campo recientes se listan para el Condado de Conecuh, Alabama, 908 especies y variedades de plantas vasculares, pertenecientes a 502 géneros y 148 familias. El condado está localizado en el centro de Coastal Plain Province y contiene partes de subdivisiones de Red Hills, Lime Hills y Pine Flatwoods. Al menos 89 de las especies listadas (9.8%) se considera que son nuevas citas para el condado o para el estado, y algunas de ellas aumentan significativamente el rango geográfico previo. Con muy pocas excepciones estas citas representan taxa nativos que no se comportan como malas hierbas.

INTRODUCTION

The state of Alabama is poorly known floristically, being the least well represented by herbarium collections among all the southeastern states (Holmgren and Keuken 1974; Holmgren et al. 1990; Freeman 1984). This lack of floristic documentation is even more acute for areas of the state that are most remote from the major universities. We concluded that the Red Hills portion of the Coastal Plain of Alabama (Harper 1943) was one of these areas, so a floristic study of mesic ravine sites in the central Red Hills area between the Alabama and Conecuh rivers was undertaken by the senior author from March, 1985, to August, 1987, as a part of his M.S. Degree program. Since a number of new collection records for Conecuh County were obtained during this study, we compiled this checklist mainly to record the additions of recently or newly documented taxa to the flora. We hope

this checklist will stimulate further floristic studies in other poorly documented and little studied parts of Alabama.

DESCRIPTION OF CONECUH COUNTY

Conecuh County lies in central-south Alabama approximately midway between Mobile and Montgomery along Interstate Highway 65, the major route between these cities. It is about 70 miles north of the Gulf of Mexico and has an area of 854 square miles (544,634 acres or 219,876 hectares). The population was estimated to be 14,054 as of April 1, 1990 (Center for Demographic and Cultural Research, Auburn University at Montgomery, 1992). Located entirely within the Coastal Plain Province, it is drained by the Conecuh-Escambia River system which originates within Alabama and drains into the Gulf of Mexico at Pensacola, Florida. Major streams within the county (from east to west) include the Conecuh River, Sepulga River, Murder Creek, and Escambia Creek. The climate is moderated by the Gulf of Mexico, with temperatures averaging 80.7°F (27.06°C) in July and 47.3°F (8.5°C) in January. Rainfall averages 60.85 in (151.13 cm) annually and is distributed about evenly throughout the year. The growing season is 230 ± 10 days (National Weather Service Southeast Agricultural Weather Service Center, Auburn University, 1992). The three major subdivisions of the Coastal Plain Province found in the county include, from north to south, the Red Hills, the Lime Hills, and Pine Flatwoods (Harper 1943).

Although this county was settled in the early 1800s by Europeans, until recently it had not been carefully and thoroughly studied botanically. This study represents the first systematic survey of the vascular plants of Conecuh County in its entirety. The name Conecuh, of Creek Indian origin, has a botanical connotation and means "land of cane" in reference to the extensive thickets of bamboo [*Arundinaria gigantea* (Walter) Muhl.] that once lined many of the water courses in the area (Riley 1881). Bartram (1777) passed through the area on his way to Mobile from Montgomery and listed a few species. Mohr (1901) included Conecuh County in an area known as the Upper Coastal Pine Belt and also listed a few species from the county. Small (1933), author of the only manual of the southeastern flora published during this century, probably passed through the area in his travels; collections from the vicinity of Evergreen were cited by him. Also, both the main rail line and highway from Pensacola, Florida, and Mobile, Alabama, pass through this county on their way to Montgomery, Alabama. More recently the woody plants of Alabama (thus to some extent those of this county) were treated by Clark (1971) and Duncan (1975). Recent field work by the senior author was done mostly in the northern part of Conecuh County (Diamond 1987); subsequently, additional collections from other portions of the county were also obtained. Robert Kral (1966a, 1966b, 1969) of Vanderbilt University has collected extensively in south Alabama for many years. Duplicates of his

records for Conecuh County cited herein were deposited in the Auburn University Herbarium (AUA) as well as at Vanderbilt University (VDB) and elsewhere.

METHODS

To obtain a reasonably complete picture of the diversity of the flora of the county, numerous plant communities and habitats were sampled in this study. Many of these habitats showed the effects of man's activities—especially roadsides, cultivated ground, waste areas, man-made impoundments, barrow pits, railroad and power line rights-of-way, and pine plantations. Relatively undisturbed habitats included beaver ponds, steep-sided creek banks, limestone outcrops near caves, and mesic hardwood ravines. Voucher specimens of all collections were deposited at AUA with available duplicates sent (in order of priority) to VDB, University of Georgia Herbarium (GA), University of North Carolina Herbarium (NCU), Missouri Botanical Garden Herbarium (MO), and United States National Herbarium (US).

Identifications were made using primarily *Manual of Vascular Flora of the Carolinas* (Radford et al. 1968) and *Guide to the Vascular Plants of the Florida Panhandle* (Clewett 1985). The nomenclature generally follows that of Kartesz and Kartesz (1980). Author citations conform to standard forms recommended by Brummitt and Powell (1992). Other references that were useful for special groups and provided the names used herein include: Cronquist (1980) for Asteraceae; Isely (1990) for Fabaceae; Lellinger (1985) for pteridophytes; Luer (1975) for Orchidaceae; Kral (1966a) for *Xyris*; Freeman (1975) for *Trillium*; Russell (1965) for *Viola*; and Yates (1977) for *Chasmanthium*. Determinations for our *Panicum* species were made by Dr. Michel Lelong, University of South Alabama, whose assistance we gratefully acknowledge.

RESULTS AND DISCUSSION

The vascular flora of Conecuh County includes 908 species representing a total of 502 genera and 148 families based upon our collections as well as literature and herbarium searches. The largest families were Asteraceae with 103 species, Poaceae with 75 species, Fabaceae with 50 species, Cyperaceae with 33 species, Liliaceae with 31 species, and Rosaceae with 29 species. Lelong (1977) reported 876 species in 414 genera and 125 families in the vicinity of Mobile, Alabama. Grubbs and Fuller (1991) reported 889 species and varieties representing 435 genera and 126 families in the vascular flora of Hickman County, Kentucky. The vascular flora of Conecuh County is evidently rather diverse for a non-coastal, non-upland area.

In addition to field collections, various publications were reviewed for names of plants occurring in the county. Taxa reported by others but not collected during the period of this research, a total of 32 species, are listed herein with the reference

concerning each species cited following the entry. Since the collection sites for such species were revisited in most instances, it is possible that some of them have been extirpated from Conecuh County since their original discovery, particularly certain taxa reported many years ago.

A computerized search of the collections of the University of Alabama at Tuscaloosa was also undertaken. Specimens on file there but not collected during this project, a total of 21 species, are listed with the herbarium acronym (UNA for the Herbarium of the University of Alabama or ALU for the Mohr Herbarium) following the entry.

Names of those species that seem on the basis of available literature to represent new records for Conecuh County are preceded by an asterisk(*). Other than the monographic treatments that were used for identification (cited above), the work on woody plants by Clark (1971) and Duncan (1975), and records maintained by the Alabama Natural Heritage Program for uncommon species, few published records of plant collections for the study area were available to facilitate our decisions concerning new collection records. Several herbaceous species that are not marked with asterisks are probably reported herein for the first time for Conecuh County, but we cannot make this claim for them with certainty. Since herbarium searches were limited to AUA, UNA, and VDB, earlier collections than ours may exist elsewhere.

A total of 19 taxa represented in Conecuh County are treated in the Alabama Natural Heritage Section's Plant Inventory List (February 1993 Edition) as endangered, threatened, or of special concern in the state. None of them are federally listed at this time. The names of these taxa are presented below in alphabetical order by genus:

<i>Apteria aphylla</i> Nutt.	<i>Quercus arkansana</i> Sarg.
<i>Aquilegia canadensis</i> L. var. <i>australis</i> (Small) Munz	<i>Rhapidophyllum hystrix</i> (Pursh) H. Wendl. & Drude
<i>Botrychium lunarioides</i> Michx.	<i>Rhododendron austrinum</i> (Small) Rehd.
<i>Brickellia cordifolia</i> Elliott	<i>Sarracenia leucophylla</i> Raf.
<i>Corallorhiza wisteriana</i> Conrad	<i>Sarracenia purpurea</i> L.
<i>Croomia pauciflora</i> (Nutt.) Torr.	<i>Selaginella ludoviciana</i> A.Br.
<i>Epidendrum conopseum</i> R.Br.	<i>Thelypteris hispidula</i> (Decne) C.F. Reed var. <i>vericolor</i> R.P. St. John in Small) Lellinger
<i>Isopyrum biternatum</i> (Raf.) Torr. & A. Gray	<i>Xyris scabrifolia</i> R.M. Harper
<i>Lycopodium cernuum</i> L.	<i>Zanthoxylum clava-berculis</i> L.
<i>Ophioglossum crotalophoroides</i> Walter	

Records that constitute particularly noteworthy extensions of geographical ranges are annotated with relevant location data in the form of township, range, and section coordinates following the name. No more precise location data are offered because of the scarcity of many of these plants and their vulnerability to over-collecting. We will provide label data or loans of documentary material to qualified researchers upon request. In a few cases we have made further commen-

tary concerning the basis for nomenclature presented or cite some reference that pertains to just one or a few species. Family names are arranged alphabetically, and within each family the generic names and species epithets, respectively, are also in alphabetical order.

ANNOTATED CHECKLIST

ACANTHACEAE

- Hygrophila lacustris* (Schltdl. & Cham.) Nees
Justicia americana (L.) Vahl
Ruellia caroliniensis (J.F.Gmel.) Steud.

ACERACEAE

- Acer floridanum* (Chapm.) Pax
 **A. negundo* L.
A. rubrum L.

AIZOACEAE

- Mollugo verticillata* L.

ALISMATACEAE

- Sagittaria australis* (J.G.Sm.) Small
S. latifolia Willd.

AMARANTHACEAE

- Amaranthus hybridus* L.
A. spinosus L.
Froelichia floridana (Nutt.) Moq.

AMARYLLIDACEAE

- Hymenocallis occidentalis* (Leconte) Kunth
Manfreda virginica (L.) Rose
Zephyranthes atamasco (L.) Herb.

ANACARDIACEAE

- Rhus copallina* L.
R. glabra L.
Toxicodendron radicans (L.) Kuntze
 **T. toxicarium* (Salisb.) Gillis
 **T. vernix* (L.) Kuntze

ANNONACEAE

- **Asimina parviflora* (Michx.) Dunal

APIACEAE

- Angelica venenosa* (Greenway) Fernald
Chaerophyllum tainturieri Hook.
Ciclospermum leptophyllum (Pers.) Sprague
Cicuta maculata L.
Daucus carota L.
D. pusillus Michx.
Eryngium integrifolium Walter
E. prostratum Nutt.
E. yuccifolium Michx.
Hydrocotyle umbellata L. (UNA)
H. verticillata Thunb.
Oxypolis rigidior (L.) Raf.
Sanicula canadensis L.
 **Spermolepis divaricata* (Walter) Britton
S. echinata (Nutt.) A.Heller
Thaspium trifoliatum (L.) A.Gray

APOCYNACEAE

- Apocynum cannabinum* L.
 **Trachelospermum difforme* (Walter) A.Gray

AQUIFOLIACEAE

- Ilex ambigua* (Michx.) Torr. [Clark 1971]
I. coriacea (Pursh) Chapm.
I. decidua Walter
I. glabra (L.) A.Gray
 **I. myrtifolia* Walter
I. opaca Aiton
I. verticillata (L.) A.Gray
I. vomitoria Aiton

ARACEAE

- Arisaema dracontium* (L.) Schott
A. triphyllum (L.) Schott
Orontium aquaticum L.
Peltandra virginica (L.) Schott

ARALIACEAE

- Aralia spinosa* L.

ARECACEAE

- Rhapidophyllum hystrix* (Pursh) H.Wendl.
 & Drude
Sabal minor (Jacq.) Pers.

ARISTOLOCHIACEAE

- Aristolochia serpentaria* L.
 **A. tomentosa* Sims
Hexastylis arifolia (Michx.) Small

ASCLEPIADACEAE

- Asclepias amplexicaulis* Sm.
A. michauxii Decne.
A. obovata Elliott
A. perennis Walter
A. tuberosa L.
A. variegata L.
Matelea gonocarpa (Walter) Shinnars

ASPIDIACEAE

- Athyrium filix-femina* (L.) Roth var. *asplenioides* (Michx.) Farw.
Dryopteris ludoviciana (Kunze) Small
Onoclea sensibilis L.
Polystichum acrostichoides (Michx.) Schott
 **Thelypteris hexagonoptera* (Michx.) Weatherby
 **T. hispidula* (Decne.) C.F.Reed var. *versicolor* (R.P.St.John) Lellinger
T. kunthii (Desv.) Morton
T. ovata R.P.St.John in Small [Short 1978]

T. palustris Schott [Short 1978]

T. torresiana (Gaudich.) Alston

ASPLENIACEAE

Asplenium platyneuron (L.) Britton, Sterns
& Poggenb.

A. resiliens Kunze

ASTERACEAE

**Acanthospermum australe* (Loefl.) Kuntze

Ambrosia artemisiifolia L.

A. trifida L.

Aster concolor L.

A. dumosus L.

A. lateriflorus (L.) Britton

A. paludosus Aiton

A. paternus Cronquist

A. sagittifolius Willd.

**Baccharis halimifolia* L.

Berlandiera pumila (Michx.) Nutt.

Bidens bipinnata L.

B. laevis (L.) Britton, Sterns & Poggenb.

**Brickellia cordifolia* Elliott T7N, R11E,
Sec. 13-14

Cacalia lanceolata Nutt.

C. ovata Walter

Carphephorus odoratissimus (J.F.Gmel.) Herb.

Chaptalia tomentosa Vent.

Chrysopsis graminifolia (Michx.) Elliott

C. mariana (L.) Elliott

Cirsium altissimum (L.) Spreng.

C. horridulum Michx.

Conyza bonariensis (L.) Cronquist

C. canadensis (L.) Cronquist

Coreopsis basalis (F.Dietr.) S.F.Blake

C. gladiata Walter

C. grandiflora Hogg ex Sweet

C. major Walter

C. pubescens Elliott

C. tinctoria Nutt.

Eclipta alba (L.) Hassk.

Elephantopus carolinianus Willd.

E. elatus Bertol.

E. tomentosus L.

Erechtites hieracifolia (L.) Raf. ex DC.

Erigeron annuus (L.) Pers.

E. philadelphicus L.

E. strigosus Muhl. ex Willd.

E. vernus (L.) Torr. & A.Gray

Eupatorium capillifolium (Lam.) Small

E. coelestinum L.

E. compositifolium Walter

E. fistulosum Barratt

E. rotundifolium L.

Euthamia minor (Michx.) Greene

Gaillardia aestivalis (Walter) H.Rock

G. pulchella Foug.

Gnaphalium obtusifolium L.

G. purpureum L.

Helenium amarum (Raf.) H.Rock

H. autumnale L.

H. brevifolium (Nutt.) A.W.Wood

H. flexuosum Raf.

Helianthus angustifolius L.

H. annuus L.

H. heterophyllus Nutt.

H. hirsutus Raf.

H. laetiflorus Pers.

H. microcephalus Torr. & A.Gray

H. tuberosus L.

Heterotheca subaxillaris (Lam.) Britton & Rusby

Hypochoeris radicata L.

Krigia oppositifolia Raf.

Lactuca canadensis L.

L. floridana (L.) Gaertn.

Liatris elegans (Walter) Michx.

L. spicata (L.) Willd.

L. tenuifolia Nutt.

Melanthera nivea (L.) Small

Mikania scandens (L.) Willd.

Pluchea camphorata (L.) DC.

P. foetida (L.) DC. (UNA)

Polymnia uvedalia L.

Pyrrhopappus carolinianus (Walter) DC.

Rudbeckia fulgida Aiton

R. hirta L.

Senecio anonymus A.W.Wood

S. glabellus Poir.

S. obovatus Muhl. ex Willd.

S. tomentosus Michx.

Silphium compositum Michx.

S. dentatum Elliott

Solidago caesia L.

S. canadensis L.

S. gracillima Torr. & A.Gray

S. leavenworthii Torr. & A.Gray

S. microcephala (Greene) Bush

S. odora Aiton

S. rugosa Aiton

S. stricta Aiton

Soliva pterosperma (Juss.) Less.

Sonchus aspera (L.) Hill

Spilanthes americana (Mutis) Hieron.

Stokesia laevis (Hill) Greene

Taraxacum officinale Weber

Tetragonotheca helianthoides L.

Verbesina alternifolia (L.) Britton

V. aristata (Elliott) A.Heller

V. virginica L.

Vernonia angustifolia Michx.

V. gigantea (Walter) Trel. ex Branner & Coville

Xanthium strumarium L.

Youngia japonica (L.) DC.

AZOLLACEAE

**Azolla caroliniana* Willd.

BALSAMINACEAE

Impatiens capensis Meerb.

BERBERIDACEAE

Nandina domestica Thunb.

Podophyllum peltatum L.

BETULACEAE

Alnus serrulata (Aiton) Willd.

Betula nigra L.

Carpinus caroliniana Walter

Ostrya virginiana (Mill.) K.Koch

BIGNONIACEAE

Bignonia capreolata L.

Campsis radicans (L.) Seem. ex Bureau

Catalpa bignonioides Walter

BLECHNACEAE

Lorinseria areolata (L.) Presl

Woodwardia virginica (L.) Sm.

BORAGINACEAE

Cynoglossum virginianum L.

Heliotropium amplexicaule Vahl

H. indicum L.

Lithospermum tuberosum Rugel ex DC.

BRASSICACEAE

Capsella bursa-pastoris (L.) Medik.

Cardamine bulbosa (Schreb.) Britton, Sterns
& Poggenb.

C. hirsuta L.

C. pennsylvanica Muhl. ex Willd.

Dentaria laciniata Muhl. ex Willd.

Draba brachycarpa Nutt. ex Torr. & A.Gray

Lepidium virginicum L.

Raphanus raphanistrum L.

BROMELIACEAE

Tillandsia usneoides (L.) L.

BURMANNIACEAE

Apteria aphylla (Nutt.) Barnhart

CABOMBACEAE

Brasenia schreberi J.G.Gmel.

CACTACEAE

**Opuntia humifusa* (Raf.) Raf.

CALLITRICHACEAE

**Callitriche terrestris* Raf. T4N, R13E, Sec. 19

C. heterophylla Pursh

C. peplodes Nutt. (UNA)

CALYCANTHACEAE

**Calycanthus floridus* L.

CAMPANULACEAE

**Campanula americana* L. T3N, R13E, Sec. 2

Lobelia cardinalis L.

L. elongata Small

L. nuttallii Roem. & Schult.

L. puberula Michx.

L. siphilitica L. (UNA)

Specularia biflora (Ruiz & Pav.) Fisch. & B.Mey.

S. perfoliata (L.) A.DC.

Wahlenbergia marginata (Thunb.) A.DC.

CAPRIFOLIACEAE

Lonicera japonica Thunb.

L. sempervirens L.

Sambucus canadensis L.

Viburnum dentatum L.

V. nudum L.

V. rufidulum Raf.

CARYOPHYLLACEAE

Cerastium glomeratum Thuill.

**Paronychia patula* Shinnars

Sagina decumbens (Elliott) Torr. & A.Gray

Saponaria officinalis L.

**Silene virginica* L.

Stellaria media (L.) Vill.

Stipulicida setacea Michx.

CELASTRACEAE

Euonymus americanus L.

CERATOPHYLLACEAE

Ceratophyllum demersum L.

C. muricatum Cham.

CHENOPODIACEAE

Chenopodium album L.

C. ambrosioides L.

CISTACEAE

Lechea villosa Elliott

CLETHRACEAE

**Clethra alnifolia* L.

COMMELINACEAE

Commelina communis L.

C. virginica L.

Tradescantia obiensis Raf.

CONVOLVULACEAE

Cuscuta compacta Juss.

Dichondra carolinensis Michx.

Ipomoea coccinea L.

I. hederacea Jacq.

I. lacunosa L.

I. pandurata (L.) G.Mey.

I. purpurea (L.) Roth

I. quamoclit L.

Jacquemontia tamnifolia (L.) Griseb.

Stylisma humistrata (Walter) Chapm.

S. patens (Desr.) Myint

CORNACEAE

**Cornus alternifolia* L.f. T7N, R11E,
Sec. 13–14

C. amomum Mill. [Clark 1971]

C. florida L.

C. stricta (Lam.) Small

CUCURBITACEAE

Citrullus lanatus (Thunb.) Matsum. & Nakai

Melothria pendula L.

CUPRESSACEAE

- Chamaecyparis thyoides* (L.) Britton, Sterns
& Poggenb.
Juniperus virginiana L.

CYPERACEAE

- Bulbostylis barbata* (Rottb.) C.B. Clarke
B. capillaris (L.) C.B. Clarke
Carex artitecta Mack.
C. cherokeensis Schwein.
C. folliculata L.
C. lupulina Muhl. (UNA)
C. lurida Wahlenb.
C. normalis Mack.
Cyperus brevifolius (Rottb.) Endl. ex Hassk.
C. erythrorhizos Muhl.
C. flavescens L.
C. globulosus Aublet
C. plukenetii Fernald
C. pseudovegetus Steud.
C. rotundus L.
Dichromena latifolia Baldwin ex Elliott
Dulichium arundinaceum (L.) Britton (UNA)
Eleocharis baldwinii (Torr.) Chapm.
E. microcarpa Torr.
E. obtusa (Willd.) Schult.
E. tuberculosa (Michx.) Roem. & Schult.
Fimbristylis miliacea (L.) Vahl
Fuirena squarrosa Michx.
Lipocarpus maculata (Michx.) Torr.
Psilocarya nitens (Vahl) A.W. Wood
Rhynchospora caduca Elliott (UNA)
R. cephalantha A.Gray (UNA)
R. corniculata (Lam.) A.Gray
R. globularis (Chapm.) Small
R. glomerata (L.) Vahl (UNA)
R. inexpansa (Michx.) Vahl
R. intermixta C. Wright ex Sauvalle
Scirpus cyperinus (L.) Kunth

CYRILLACEAE

- **Cliftonia monophylla* (Lam.) Britton ex Sarg.
Cyrilla racemiflora L.

DIOSCOREACEAE

- Dioscorea villosa* L.

DROSERACEAE

- **Drosera brevifolia* Pursh
D. capillaris Poir.

EBENACEAE

- Diospyros virginiana* L.

ELAEAGNACEAE

- Elaeagnus pungens* Thunb.

EQUISETACEAE

- Equisetum hyemale* L.

ERICACEAE

- Gaylussacia dimosa* (Andrz.) Torr. & A.Gray
G. frondosa (L.) Torr. & A.Gray ex Torr.

Kalmia latifolia L.

Leucothoe axillaris (Lam.) D. Don

L. racemosa (L.) A. Gray

Lyonia lucida (Lam.) K. Koch

Oxydendrum arboreum (L.) DC.

**Rhododendron alabamense* Rehder T7N,
R11E, Sec. 13-14

R. austrinum (Small) Rehder

R. canescens (Michx.) Sweet

R. viscosum (L.) Torr.

Vaccinium arboreum Marshall

V. ashei Rehder [Clark 1971] We acknowledge that Clark suggests that this and *V. fuscatum* may be the same as *V. corymbosum*, and the next four named "species" are all treated as under the latter name by Vander Kloet (1980). In our opinion, at least three (perhaps five) different high-bush blueberry taxa occur in this county and closely agree with the three names that follow. We certainly agree with Godfrey (1988) concerning *V. elliotii*, "which seems to me to have such distinctiveness as to be recognizable in the field at a glance."

V. atrococcum (A. Gray) A. Heller

V. corymbosum L.

V. elliotii Chapm.

V. fuscatum Aiton [Clark 1971]

V. stamineum L.

ERIOCAULACEAE

Eriocaulon decangulare L.

Lachnocaulon anceps (Walter) Morong

EUPHORBIACEAE

Acalypha gracilens A. Gray

A. ostryaefolia Riddell

Chamaesyce maculata (L.) Small

Cnidoscolus stimulosus (Michx.) Engelm.
& A. Gray

Croton capitatus Michx.

C. glandulosus L. var. *septentrionalis*
Müll. Arg.

Euphorbia commutata Engelm.

E. corollata L.

Phyllanthus urinaria L.

Poinsettia heterophylla (L.) Klotzsch
& Garcke

Ricinus communis L.

**Sapium sebiferum* (L.) Roxb.

Sebastiania fruticosa (Bartram) Fernald

Stillingia sylvatica Garden ex L.

Tragia urens L.

T. urticifolia Michx.

FABACEAE

Albizia julibrissin Durazz.

Amorpha fruticosa L.
Apios americana Medik.
Astragalus villosus Michx.
Baptisia alba (L.) R.Br.
Chamaecrista fasciculata (Michx.) Greene
C. nictitans (L.) Moench
Centrosema virginianum (L.) Benth.
Cercis canadensis L.
Crotalaria rotundifolia (Walter) Poir.
C. spectabilis Roth
Dalea pinnata (J.F.Gmel.) Barneby
Desmodium marilandicum (L.) DC.
D. tortuosum (Sw.) DC.
Erythrina herbacea L.
Galactia macreei M.A.Curtis
G. volubilis (L.) Britton
Gleditsia triacanthos L.
Lespedeza capitata Michx.
L. cuneata (Dum.Cours.) G.Don
L. hirta (L.) Hornem.
L. procumbens Michx.
L. stuevei Nutt.
Lupinus villosus Willd.
Medicago arabica (L.) Huds.
Melilotus alba Medik.
Pueraria lobata (Willd.) Ohwi
Rhynchosia reniformis (Pursh) DC.
Robinia pseudo-acacia L.
Schrankia microphylla (Dryand.) J.F.Macbr.
Senna obtusifolia (L.) Irwin & Barneby
S. occidentalis (L.) Link
Sesbania macrocarpa Muhl. ex Raf.
S. punicea (Cav.) Benth.
Strophostyles umbellata (Muhl. ex Willd.)
 Britton
Stylosanthes biflora (L.) Britton, Sterns
 & Poggenb.
Tephrosia hispida (Michx.) Torr. & A.Gray
T. spicata (Walter) Torr. & A.Gray
T. virginiana (L.) Pers.
Trifolium campestre Schreb.
T. carolinianum Michx.
T. dubium Sibth.
T. incarnatum L.
 **T. vesiculosum* Savi
Vicia caroliniana Walter
V. lathyroides L.
V. villosa Roth ssp. *varia* (Host) Corb.
 **Wisteria frutescens* (L.) Poir.
W. sinensis (Sims) Sweet
Zornia bracteata (Walter) J.G.Gmel.

FAGACEAE

Castanea dentata (Marshall) Borkh.
C. dentata (Marshall) Borkh. × *mollissima*
 Blume

C. pumila (L.) Mill.
Fagus grandifolia Ehrh.
Quercus alba L.
Q. arkansana Sarg.
Q. coccinea Münchh.
Q. falcata Michx.
Q. hemisphaerica Bartram
Q. incana Bartram
Q. laevis Walter
Q. laurifolia Michx.
Q. lyrata Walter
Q. margaretta Ashe
Q. marilandica Münchh.
Q. michauxii Nutt.
Q. nigra L.
Q. phellos L. [Clark 1971]
 **Q. rubra* L. T7N, R11E, Sec. 13-14
Q. stellata Wangenh.
 **Q. virginiana* Mill.

FUMARIACEAE

Corydalis micrantha (Engelm.) A.Gray

GENTIANACEAE

Gentiana catesbaei Walter
Sabatia campanulata (L.) Torr.
S. gentianoides Elliott

GERANIACEAE

Geranium carolinianum L.
G. maculatum L.

HALORAGACEAE

Myriophyllum brasilense Cambess.
M. laxum Shuttlew. ex Chapm.
Proserpinaca palustris L.
P. pectinata Lam.

HAMAMELIDACEAE

Hamamelis virginiana L.
Liquidambar styraciflua L.

HIPPOCASTANACEAE

Aesculus parviflora Walter
A. pavia L.

HYDROCHARITACEAE

Egeria densa Planch.

HYDROPHYLLACEAE

Hydrolea quadrivalvis Walter

HYPERICACEAE

**Hypericum brachyphyllum* (Spach) Steud.
 **H. cistifolium* Lam.
H. drummondii (Grev. & Hook.) Torr.
 & A.Gray
H. hypericoides (L.) Crantz
H. mutilum L.
H. punctatum Lam.
H. stans (Michx.) W.P.Adams & N.Robson
Triadenum walteri (J.G.Gmel.) Gleason

ILICACEAE

Illicium floridanum J. Ellis

IRIDACEAE

- Gladiolus papilio* Hook.f.
Iris hexagona Walter
I. verna L.
Sisyrinchium mucronatum Michx.
S. rosulatum E.P.Bicknell

ISOETACEAE

- **Isoetes engelmannii* A.Br.
I. engelmannii A.Br. × *flaccida* Shuttlew.
 ex A.Br. [Boom, 1982]

JUGLANDACEAE

- Carya illinoensis* (Wangenh.) K.Koch
C. ovalis (Wangenh.) Sarg.
C. pallida (Ashe) Engelm. & Graebn.
 [Clark 1971]
C. tomentosa (Poir.) Nutt.
Juglans nigra L.

JUNCACEAE

- Juncus biflorus* Elliott
J. bufonius L.
J. coriaceus Mack.
J. dichotomus Elliott
J. diffusissimus Buckley
J. effusus L.
J. marginatus Rostk.
J. megacephalus M.A.Curtis
J. polycephalus Michx.
J. repens Michx.
J. scirpoides Lam. (UNA)
J. tenuis Willd.
J. trigonocarpus Steud.
Luzula echinata (Small) F.J.Herm.

LAMIACEAE

- Calamintha georgiana* (R.M.Harper) Shinnars
 **Collinsonia canadensis* L. T7N, R11E,
 Sec. 13-14
Hedeoma hispidum Pursh
Hyptis alata (Raf.) Shinnars
H. mutabilis (Rich.) Briq.
Lamium amplexicaule L.
Lycopus americanus Muhl. ex Barton (UNA)
L. rubellus Moench
L. virginicus L.
Monarda punctata L.
Perilla frutescens (L.) Britton
Prunella vulgaris L.
Pycnanthemum muticum (Michx.) Pers.
Salvia azurea Michx. & Lam.
S. lyrata L.
Scutellaria elliptica Muhl.
S. incana Biehler
S. integrifolia L.
Stachys floridana Shuttlew.
Trichostema dichotomum L.

LAURACEAE

- Lindera benzoin* (L.) Blume [Clark 1971]
Persea borbonia (L.) Spreng.
Sassafras albidum (Nutt.) Nees

LEMNACEAE

- Lemna aequinoctialis* Welw.
L. valdiviana Phil. (UNA)
Spirodela polyrrhiza (L.) Schleid.

LENTIBULARIACEAE

- **Pinguicula primuliflora* C.E.Wood
 & R.K.Godfrey
Utricularia biflora Lam. (UNA)
U. gibba L.
U. juncea Vahl
 **U. purpurea* Walter

LILIACEAE

- Aletris farinosa* L.
 **A. obovata* Nash
Allium bivalve (L.) Kuntze
A. canadense L.
A. mobilense Regel
A. vineale L.
Amianthium muscaetoxicum (Walter) A.Gray
Asparagus officinalis L.
Chamaelirium luteum (L.) A.Gray
Ipheion uniflorum (Lindl.) Raf.
Lilium longiflorum Thunb.
L. michauxii Poir.
L. superbum L.
 **Medeola virginiana* L. T5N, R11E, Sec. 36
Polygonatum biflorum (Walter) Elliott
Smilax bona-nox L. [Duncan 1975]
S. ecirrhata (Engelm. ex Kunth) S.Watson
S. glauca Walter
S. laurifolia L.
S. pumila Walter
S. rotundifolia L. [Duncan 1975]
S. smallii Morong
S. walteri Pursh [Clark 1971]
Tofieldia racemosa (Walter) Britton, Sterns
 & Poggenb.
 **Trillium catesbaei* Elliott T7N, R12E, Sec 19-
 20. This is the westernmost locality known
 for this species.
T. decipiens J.D.Freeman
T. maculatum Raf.
T. stamineum Harb.
T. underwoodii Small
Uvularia perfoliata L.
Yucca filamentosa L.

LINACEAE

- Linum striatum* Walter
L. virginianum L.

LOGANIACEAE

- **Buddleja lindleyana* Fortune

Cynoctonum mitreola (L.) Britton
C. sessilifolium (Walter) J.St.-Hil.
 **Gelsemium rankinii* Small
G. sempervirens (L.) J.St.-Hil.
Polypremum procumbens L.
Spigelia marilandica L.

LORANTHACEAE

**Phoradendron serotinum* (Raf.) M.C.Johnst.

LYCOPODIACEAE

Lycopodium alopecuroides L.
 **L. appressum* (Chapm.) F.E.Lloyd & Underw.
 **L. carolinianum* L.
 **L. cernuum* L.
 **L. prostratum* R.M.Harper

LYTHRACEAE

**Cuphea carthagenensis* (Jacq.) J.F.Macbr.
Lagerstroemia indica L.
Rotala ramosior (L.) Koehne

MAGNOLIACEAE

Liriodendron tulipifera L.
Magnolia acuminata (L.) L.
M. grandiflora L.
 **M. macrophylla* Michx.
M. pyramidata Bartram
 **M. tripetala* L.
M. virginiana L.

MALVACEAE

Hibiscus aculeatus Walter
Malvariscus arboreus Cav.
Modiola caroliniana (L.) G.Don
 **Sida elliotii* Torr. & A.Gray T7N, R11E,
 Sec. 13-14
S. rhombifolia L.

MAYACACEAE

Mayaca aubletii Michx.

MELASTOMATACEAE

Rhexia alifanus Walter
 **R. lutea* Walter
R. mariana L.
R. petiolata Walter [Kral and Bostick 1969]
R. virginica L.

MELIACEAE

Melia azedarach L.

MENISPERMACEAE

Cocculus carolinus (L.) DC.

MENYANTHACEAE

Nymphoides cordata (Elliott) Fernald (UNA)

MORACEAE

Broussonetia papyrifera (L.) Vent.
Fatoua villosa (Thunb.) Nakai
 **Maclura pomifera* (Raf.) C.K.Schneid.
Morus rubra L.

MYRICACEAE

Myrica cerifera L.
M. heterophylla Raf.

NYMPHAEACEAE

Brasenia schreberi J.F.Gmel.
Nuphar luteum (L.) Sibth. & Sm.
Nymphaea odorata Aiton

NYSSACEAE

**Nyssa aquatica* L.
 **N. sylvatica* Marshall

OLEACEAE

Chionanthus virginicus L.
Forestiera ligustrina (Michx.) Poir. [Clark 1971]
Fraxinus americana L.
F. caroliniana Mill.
Ligustrum japonicum Thunb.
L. sinense Lour.
Osmanthus americana (L.) Benth. & Hook.f.
 ex A.Gray

ONAGRACEAE

Gaura filipes Spach
G. sinuata Nutt. ex Ser.
Ludwigia alternifolia L.
L. decurrens Walter
L. glandulosa Walter
L. hirtella Raf.
L. leptocarpa (Nutt.) Hara
L. maritima R.M.Harper (UNA)
L. microcarpa Michx.
Oenothera biennis L.
O. fruticosa L.
O. laciniata Hill
O. speciosa Nutt.

OPHIGLOSSACEAE

**Botrychium biternatum* (Sav.) Underw.
B. dissectum Spreng. (UNA)
 **B. lunarioides* Michx. T4N, R13E, Sec. 32
B. obliquum (Muhl.) Small [Short 1978]
B. virginianum (L.) Sw.
 **Ophioglossum crotalophoroides* Walter T4N,
 R13E, Sec.32

OROBANCHACEAE

Conopholis americana (L.) Wallr.
Epifagus virginiana (L.) Barton

ORCHIDACEAE

Calopogon tuberosus (L.) Britton, Sterns
 & Poggenb.
Cleistes divaricata (L.) Ames
 **Corallorhiza wisteriana* Conrad
 **Epidendrum conopseum* R.Br. T7N, R11E,
 Sec. 13-14
Listera australis Lindl.
Malaxis unifolia Michx.
Platanthera ciliaris (L.) Lindl.
P. clavellata (Michx.) Luer
P. cristata (Michx.) Lindl.
P. flava (L.) Lindl.
Pogonia ophioglossoides (L.) Ker Gawl.

- Spiranthes praecox* (Walter) S. Watson
S. tuberosa Raf.
S. vernalis Engelm. & A. Gray
Tipularia discolor (Pursh) Nutt.
- OSMUNDACEAE
- Osmunda cinnamomea* L.
O. regalis L.
- OXALIDACEAE
- Oxalis dillenii* Jacq.
O. florida Salisb. var. *recurva* (Elliott) Ahles
O. rubra J. St.-Hil.
O. stricta L. Our determinations for the yellow-flowered species of *Oxalis* were gained by comparison of our specimens with those at AUA from nearby counties annotated or collected by R. Kral as well available literature cited elsewhere.
- PAPAVERACEAE
- Argemone albiflora* Hornem.
Sanguinaria canadensis L.
- PASSIFLORACEAE
- Passiflora incarnata* L.
P. lutea L.
- PENTHORACEAE
- Penthorum sedoides* L.
- PHYTOLACCAEAE
- Phytolacca americana* L.
- PINACEAE
- Pinus echinata* Mill.
P. elliotii Engelm. [Clark 1971]
P. glabra Walter
P. palustris Mill.
**P. serotina* Michx.
P. taeda L.
**P. virginiana* Mill.
- PLANTAGINACEAE
- Plantago aristata* Michx.
P. lanceolata L.
P. virginica L.
- PLATANACEAE
- Platanus occidentalis* L.
- POACEAE
- Agrostis hyemalis* (Walter) Britton, Sterns & Poggenb.
Andropogon elliotii Chapm.
A. glomeratus (Walter) Britton, Sterns & Poggenb.
A. ternarius Michx.
A. virginicus L.
Anthraenantia rufa (Elliott) Schult.
Aristida dichotoma Michx. var. *curtissii* A. Gray
A. longespica Poir. in Lam.
A. oligantha Michx.
A. purpurascens Poir.
A. simpliciflora Chapm.
A. virgata Trin.
Arundinaria gigantea (Walter) Muhl.
Axonopus affinis Chase
Briza minor L.
Bromus catharticus Vahl
B. japonicus Thunb. ex Murray
B. secalinus L.
Cenchrus echinatus L.
Chasmanthium latifolium (Michx.) H. O. Yates
C. sessiliflorum (Poir.) H. O. Yates
Ctenium aromaticum (Walter) A. W. Wood
Cynodon dactylon (L.) Pers.
Dactylis glomerata L.
Dactyloctenium aegyptium (L.) Beauv.
Danthonia sericea Nutt.
Digitaria sanguinalis (L.) Scopoli
Echinochloa crusgalli (L.) Beauv.
Eleusine indica (L.) Gaertn.
Eragrostis tenella (L.) Beauv. ex Roem. & Schult.
E. hirsuta (Michx.) Nees
E. pilosa (L.) Beauv.
E. refracta (Muhl.) Scribn.
Eremochloa ophiuroides (Munro) Hack.
Erianthus giganteus (Walter) Muhl.
Festuca arundinacea Schreb.
Hordeum pusillum Nutt.
Imperata brasiliensis Trin.
Lolium multiflorum Lam.
Luziola bahiensis (Steud.) Hitchc. [Mohr 1901]
Muhlenbergia schreberi J. F. Gmel.
Oplismenus setarius (Lam.) Roem. & Schult.
Panicum aciculare Desv. ex Poir.
P. anceps Michx.
P. boscii Poir.
P. commutatum Schult.
P. flexile (Gatt.) Scribn.
P. texanum Buckley
P. scoparium Lam.
P. sphaerocarpon Elliott
P. virgatum L.
Paspalum floridanum Michx.
P. laeve Michx.
P. notatum Flügge var. *saurae* Parodi
**P. sauetii* Chase This is a new state record for a species previously known only from south Florida and the Greater Antilles (Hitchcock and Chase 1950).
P. urvillei Steud.
Phyllostachys aurea Riviere & C. Riviere
Poa annua L.
Schizachyrium scoparium (Michx.) Nash
S. tenerum Nees

Secale cereale L.

Setaria geniculata (Lam.) Beauv.

Sorghastrum elliottii (C.Mohr) Nash

S. secundum (Elliott) Nash

Sorghum bicolor (L.) Moench

S. halepense (L.) Pers.

S. vulgare Pers.

Sphenopholis obtusata (Michx.) Scribn.

Sporobolus indicus (L.) R.Br.

S. junceus (Michx.) Kunth

Stenotaphrum secundatum (Walter) Kuntze

Tridens flavus (L.) Hitchc.

Tripsacum dactyloides (L.) L.

Triticum aestivum L.

Vulpia octoflora (Walter) Rydb.

PODOSTEMACEAE

Podostemon ceratophyllum Michx.

POLEMONIACEAE

Phlox amoena Sims

P. drummondii Hook.

P. glaberrima L.

P. pilosa L.

POLYGALACEAE

Polygala boykinii Nutt.

P. grandiflora Walter

P. incarnata L.

P. lutea L.

P. nana (Michx.) DC.

P. nuttallii Torr. & A.Gray

P. polygama Walter

POLYGONACEAE

Brunnichia cirrhosa Banks ex Gaertn.

Polygonum hydropiperoides Michx.

Rumex crispus L.

R. hastatulus Baldwin ex Elliott

Tovara virginiana (L.) Raf.

POLYPODIACEAE

Polypodium polypodioides (L.) Walter

PONTEDERIACEAE

Eichornia crassipes (Mart.) Solms

Heteranthera reniformis Ruiz & Pav.

Pontederia cordata L. (UNA)

PORTULACACEAE

Portulaca oleracea L.

P. pilosa L.

POTAMOGETONACEAE

Potamogeton diversifolius Raf. (UNA)

PRIMULACEAE

Anagallis arvensis L.

Lysimachia ciliata L.

L. lanceolata Walter

**Samolus parviflorus* Raf.

PTERIDACEAE

Adiantum capillus-veneris L.

**A. pedatum* L.

Pteridium aquilinum (L.) Kuhn

**Pteris multifida* Poir.

RANUNCULACEAE

**Actaea pachypoda* Elliott

**Anemone berlandieri* Pritz.

**Aquilegia canadensis* L. var. *australis* (Small)
Munz T4N, R13E, Sec. 19

Clematis crispa L.

C. reticulata Walter

C. virginiana L.

**Isopyrum biternatum* (Raf.) Torr. & A.Gray
T3N, R13, Sec. 2

Ranunculus abortivus L.

R. hispidus Michx.

R. platensis Spreng.

R. recurvatus Poir.

R. sardous Crantz

Thalictrum thalictroides (L.) Eames & B.Boivin

**Xanthorhiza simplicissima* Marshall

RHAMNACEAE

Berchemia scandens (Hill) K.Koch

**Ceanothus americanus* L.

**Rhamnus caroliniana* Walter

ROSACEAE

Agrimonia pubescens Wallr.

Alchemilla microcarpa Boiss. & Reut.

Amelanchier arborea (Michx.f.) Fernald

**Chrysobalanus oblongifolius* Michx.

Crataegus crus-galli L.

C. flabellata (Bosc) K.Koch

**C. flava* Aiton

C. spatulata Michx. [Clark 1971]

Duchesnea indica (Andrz.) Focke

Geum canadense Jacq.

Malus angustifolia (Aiton) Michx.

**Physocarpus opulifolius* (L.) Maxim.

Prunus angustifolia Marshall [Clark 1971]

P. alabamensis C.Mohr [Dean 1961]

P. caroliniana (Mill.) Aiton

P. persica (L.) Batsch [Clark 1971]

P. serotina Ehrh.

P. umbellata Elliott

Pyracantha coccinea Roem.

**Rosa carolina* L.

R. humilis Marshall (ALU)

R. multiflora Thunb. ex Murray

**R. wichuraiana* Crép.

Rubus argutus Link [Clark 1971]

R. betulifolius Small

R. cuneifolius Pursh

R. flagellaris Willd.

R. trivialis Michx. [Clark 1971]

Sorbus arbutifolia (L.) Heynh.

RUBIACEAE

Cephalanthus occidentalis L.
Diodia teres Walter
D. virginiana L.
Galium circaezans Michx.
G. pilosum Aiton
Hedyotis caerulea (L.) Hook.
H. crassifolia Raf.
H. procumbens (Walter ex J.F.Gmel.) Fosberg
H. purpurea (L.) Torr. & A.Gray
H. pusilla Sch_pf
Mitchella repens L.
Richardia scabra L.

RUTACEAE

**Poncirus trifoliata* (L.) Raf.
 **Ptelea trifoliata* L.
 **Zanthoxylum clava-berculis* L.

SALICACEAE

Populus deltoides Bartram ex Marshall
Salix caroliniana Michx. [Clark 1971]
 **S. eriocephala* Michx.
S. nigra Marshall

SAPOTACEAE

Bumelia lanuginosa (Michx.) Pers.
B. lycioides (L.) Pers. [Dean 1961]

SARRACENIACEAE

Sarracenia leucophylla Raf.
S. psittacina Michx. [Freeman et al. 1979]
S. purpurea L.

SAXIFRAGACEAE

Decumaria barbara L.
Hydrangea arborescens L.
H. quercifolia Bartram
Itea virginica L.
Philadelphus inodorus L.
Tiarella cordifolia L.

SCHIZAEACEAE

Lygodium japonicum (Thunb.) Sw.

SCROPHULARIACEAE

Agalinis fasciculata (Elliott) Raf.
A. purpurea (L.) Pennell
A. setacea (Walter) Raf.
Aureolaria flava (L.) Farw.
A. pectinata (Nutt.) Pennell
Bacopa caroliniana (Walter) B.L. Rob. (UNA)
Buchnera floridana Gand.
Gratiola floridana Nutt.
G. pilosa Michx.
Linaria canadensis (L.) Dum.Cours.
Lindera dubia (L.) Pennell
Macranthera flammea (Bartram) Pennell
Mazus pumilus (Burm.f.) Steenis
Mecardonia acuminata (Walter) Small
Micranthemum umbrosum (Walter) S.F.Blake
Mimulus alatus Aiton

**Paulownia tomentosa* (Thunb.) Siebold & Zucc.
 ex Steud.

Pedicularis canadensis L.
Penstemon digitalis (L.) Aiton
P. laevigatus Sol.
 **Scoparia dulcis* L.
Seymeria pectinata Pursh
Verbascum thapsus L.
Veronica arvensis L.
V. peregrina L.

SELAGINELLACEAE

Selaginella apoda (L.) Fernald
S. ludoviciana A.Br. [Short 1978]

SIMAROUBACEAE

Ailanthus altissima (Mill.) Swingle

SOLANACEAE

Petunia × *atkinsiana* D.Don ex Loudon
Physalis angulata L.
Solanum carolinense L.

SPARGANIACEAE

Sparganium americanum Nutt.

STEMONACEAE

**Croomia pauciflora* (Nutt.) Torr.

STERCULIACEAE

Firmiana platanifolia (L.f.) Marsili

STYRACACEAE

Halesia diptera Elliott
H. parviflora Michx.
Styrax americana Lam.
S. grandifolia Aiton

SYMPLOCACEAE

Symplocos tinctoria (L.) L'Hér.

TAXODIACEAE

**Taxodium ascendens* Brongn.
 **T. distichum* (L.) Rich.

THEACEAE

Stewartia malacodendron L. [Clark 1971]

TILIACEAE

Tilia americana L.

TYPHACEAE

Typha latifolia L.

ULMACEAE

Celtis tenuifolia Nutt.
Ulmus alata Michx.
U. americana L.
U. rubra Muhl.

URTICACEAE

Boehmeria cylindrica (L.) Sw.
B. nivea (L.) Gaudin

VALERIANACEAE

Valerianella radiata (L.) Dufr.

VERBENACEAE

Callicarpa americana L.
Glandularia tenuisecta (Briq.) Small
Lantana horrida Humb., Bonpl. & Kunth

Verbena bonariensis L.
V. brasiliensis Vell.
V. halei Small
V. rigida (L.) Spreng.
V. urticifolia L.

VIOLACEAE

Viola affinis Leconte
V. floridana Brainerd In our opinion, at least two (and perhaps three) distinct acaulescent blue violets in the *V. sororia* complex occur in this county. Limited study of Alabama collections by McKinney (1992) causes his treatment to be less than satisfactory for resolving problems of identification in our area, so these determinations are according to Russell (1965).
V. lanceolata L.
V. palmata L.
V. pedata L.
V. primulifolia L.
V. rafinesquii Greene
V. triloba Schwein.

V. villosa Walter
V. walteri House

VITACEAE

Ampelopsis arborea (L.) Koehne
A. cordata Michx.
Parthenocissus quinquefolia (L.) Planch. [Duncan 1975]
Vitis aestivalis Michx.
V. cinerea Engelm. ex Millard
V. rotundifolia Michx.

XYRIDACEAE

Xyris ambigua Beyr. ex Kunth
X. baldwiniana Schult.
X. caroliniana Walter
**X. difformis* Chapm. var. *difformis*
X. fimbriata Elliott (UNA)
**X. iridifolia* Chapm.
**X. jupicai* Rich.
X. platylepis Chapm.
X. scabrifolia R.M. Harper [Freeman, et al. 1979]

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